PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference D3-A0302P	FOR FURTHER ACTION	See Form PCT/IPEA/416				
International application No. PCT/JP2004/009617	International filing date (day/month) 30 June 2004 (30.06.200					
International Patent Classification (IPC) or national classification and IPC C12N 7/01, 15/45, 15/86						
Applicant DNAVEC RESEARCH INC.						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of sheets, including this cover sheet.						
`	3. This report is also accompanied by ANNEXES, comprising: a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:					
and/or sheets con	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
beyond the discle	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) disk 1 , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications rela	ating to the following items:					
Box No. I Basis of the r	eport					
Box No. II Priority						
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
· =	·					
Z Z ZOLITIO, V ZCOLOGIOGIOGIO	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain docum						
Box No. VII Certain defec	ets in the international application					
Box No. VIII Certain obser	rvations on the international applicat	on				
Date of submission of the demand	Date of co	mpletion of this report				
07 January 2005 (07.0	1.2005)	10 May 2005 (10.05.2005)				
Name and mailing address of the IPEA/JP	Authorize	d officer				
Facsimile No.		Telephone No.				

Translation

International application No.

PCT/JP2004/009617

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. 1	E Bas	asis of the report	
1. With re	egard to	o the language, this report is based on the international application in the language in which it was filed, un icated under this item.	less
	This rep	eport is based on translations from the original language into the following languageis language of a translation furnished for the purpose of:	· · ·
	int	nternational search (under Rules 12.3 and 23.1(b))	
	☐ pu	publication of the international application (under Rule 12.4)	
	in	nternational preliminary examination (under Rules 55.2 and/or 55.3)	
furnis: and ar	hed to th re not an	to the elements of the international application, this report is based on (replacement sheets which he receiving Office in response to an invitation under Article 14 are referred to in this report as "original unnexed to this report):	ave been ally filed"
	The inte	ternational application as originally filed/furnished	
	the desc	scription:	ad/formiahad
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	pages	, as originally file , as amended (together with any statement) und	
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·	pages*	received by this Authority on	
	the drav	awings:	,
	pages	, as originally fil	led/turnisned
	pages*		
	pages*		
	a seque	nence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
3.	The am	mendments have resulted in the cancellation of:	
	\equiv	the description, pages	
1	=	the claims, Nos.	
1		the drawings, sheets/figs	
1	_	the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	
1			
4.	made, (Rule	report has been established as if (some of) the amendments annexed to this report and listed below had a since they have been considered to go beyond the disclosure as filed, as indicated in the Suppleme 270.2(c)). the description, pages	not been ental Box
1	==	the claims, Nos.	
	=	the drawings, sheets/figs	
I	=	* · · · · · · · · · · · · · · · · · · ·	
1		the sequence listing (specify):	
1		any table(s) related to sequence listing (specify):	
* If it	em 4 app	oplies, some or all of those sheets may be marked "superseded."	
1	_		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/009617

	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement					
Novelty (N)	Claims	1-14	YES		
	Claims		МО		
Inventive step (IS)	Claims	1-14	YES		
	Claims		МО		
Industrial applicat	lity (IA) Claims	1-14	YES		
	Claims		NO		

2. Citations and explanations (Rule 70.7)

Document 1: JP 2003-513633 A (DNAVEC Research Institute) April 15, 2003

Document 1 cited in the international search report does not describe the inventions of claims 1-14, and therefore these inventions are novel and involve an inventive step. More specifically, document 1 does not describe a minus strand RNA virus having a foreign gene in which the wild type gene of a foreign gene contains a partial sequence in the antigenome E sequence of the minus strand RNA virus in the sense strand sequence, and the foreign gene contained in the minus strand RNA virus is modified to another sequence such that the partial sequence of the E sequence of the sense strand sequence reduces homology with the E sequence, and persons skilled in the art cannot easily conceive of this matter from the description in document 1.

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Supplemental Box Relating to Sequence Listing				
Continuation of Box No. 1, item 2:				
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this report was established on the basis that of: 				
a. type of material				
a sequence listing				
table(s) related to the sequence listing				
b. format of material				
in written format				
in computer readable form				
^{C.} time of filing/furnishing				
contained in the international application as filed				
filed together with the international application in computer readable form				
furnished subsequently to this Authority for the purpose of search and/or examination				
received by this Authority as an amendment* on				
2. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
3. Additional comments:				
* If item 4 in Box No. I applies, the listing and /or table(s) related thereto, which form part of the basis of the report, may be marked				
"superseded".				